



PATENT APPLICATION No.: 10/015,939
ATTORNEY DOCKET No.: 62698.000010

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 10/015,939 Confirmation No.: 2933
Applicant : Prakash KADKADE, et al.
Filed : December 17, 2001
Title : CRYOPRESERVATION OF DIVERSE PLANT CELLS
TC/Art Unit : 1651
Examiner: : Deborah K. Ware

Docket No. : 62698.000010
Customer No. : 21967

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants submit attached Form PTO-SB/08B (modified) for consideration and request the references cited therein be made of record by the U.S. Patent and Trademark Office in the above-captioned application.

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of cited U.S. patents and/or U.S. patent application publications under 35 U.S.C. 371, are not being provided.

Applicants respectfully point out that the submission of the listed references in this Information Disclosure Statement is not an admission that they are prior art or that they are material to patentability of any claims of the application. Also, the submission of this Information Disclosure Statement is not an indication that a search has been made by Applicants.

For the convenience of the Examiner in considering the cited references, a copy of each of the cited references is enclosed with this communication. In considering the cited references, it may be noted by the Examiner that certain of the references may contain markings, underlinings, and/or other notations. These markings, underlinings, and/or other notations are not to be construed as drawing the Examiner's attention either to selected parts or away from other

parts of the cited references. Any such markings were either present on the copies of the cited references obtained by the associated individuals, or were made thereon during the study of the references by the associated individuals.


Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08B with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(b), this Information Disclosure Statement is believed to be submitted prior to issuance of a first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114. Therefore, it is respectfully submitted that no fee is required for consideration of this information. However, in the event any fee is deemed necessary, the Commissioner is authorized to charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: April 27, 2007

By: 
Robert C. Lampe, III
Registration No. 51,914

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/015,939
Filing Date	December 17, 2001
First Named Inventor	Prakash Kadkade, et al.
Art Unit	1651
Examiner Name	Deborah K. Ware
Attorney Docket Number	62698.000010

Sheet **1 of 4**

U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US- 5,041,382	08-20-1991	Gupta, et al.	
	2.	US- 5,045,446	09-03-1991	Goodrich, Jr., et al.	
	3.	US- 5,071,741	12-10-1991	Brockbank	
	4.	US- 5,413,930	05-09-1995	Becwar, et al.	
	5.	US- 5,464,769	11-07-1995	Attree, et al.	
	6.	US- 5,491,090	02-13-1996	Handley, III, et al.	
	7.	US- 5,506,136	04-09-1996	Becwar, et al.	
	8.	US- 5,654,185	08-05-1997	Palsson	
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EXAMINER SIGNATURE

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number

10/015,939

Filing Date

December 17, 2001

First Named Inventor

Prakash Kadkade, et al.

Art Unit

1651

Examiner Name

Deborah K. Ware

Sheet

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Attorney Docket Number

62698.000010

FOREIGN PATENT DOCUMENTS

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		Filing Date	December 17, 2001
		First Named Inventor	Prakash Kadkade, et al.
		Art Unit	1651
		Examiner Name	Deborah K. Ware
Sheet	3 of 4	Attorney Docket Number	62698.000010

OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
	11.	McLellan, et al., "The Response of Four Cultured Plant Cell Lines to Freezing and Thawing in the Presence or Absence of Cryoprotectant Mixtures", Cryo-Letters, vol. 11 (1990), pp. 189-197.	<input type="checkbox"/>	<input type="checkbox"/>
	12.	Mazur, P.; "Freezing Injury in Plants," Biology Division, Oak Ridge National Laboratory, pp. 419-448 (1964).	<input type="checkbox"/>	<input type="checkbox"/>
	13.	Peter, M.; "Freezing of living cells: mechanisms and implications," Am. J. Physiol., 247, 125-142, (1984).	<input type="checkbox"/>	<input type="checkbox"/>
	14.	Sakai, A.; "Survival of Plant Tissue at Super-Low Temperatures III. Relation between Effective Prefreezing Temperatures and the Degree of Frost Hardiness," Plant Physiology, 882-887 (1965).	<input type="checkbox"/>	<input type="checkbox"/>
	15.	Soshiki Baiyou (Tissue Culture), Vol. 18, no. 6, pg. 224-227, 1992.	<input checked="" type="checkbox"/> English Abstract Only	<input type="checkbox"/>
	16.	Sakai, et al., "Cryopreservation of Nucellar Cells of Navel Orange (Citrus Sinensis OSB. var. brasiliensis Tanaka) by Vitrification, Plant Cell Reports, Vol. 9, pg. 30-33, 1990.	<input type="checkbox"/>	<input type="checkbox"/>
	17.	Kobayashi, et al., "Cryopreservation of Citrus", JICA Group Ref., No. 6, pg. 31-51, 1993.	<input type="checkbox"/>	<input type="checkbox"/>
	18.	Nishizawa, et al., "Cryopreservation of Asparagus (Asparagus officinalis L.) Embryogenic Suspension Cells and Subsequent Plant Regeneration by Vitrification", Plant Science, Vol. 91, pg. 67-73, 1993.	<input type="checkbox"/>	<input type="checkbox"/>
	19.	Matsumoto, et al., Cryopreservation of in vitro-grown apical meristems of wasabi (Wasabia japonica) by Vitrification and Subsequent High Plant Regeneration", Plant Cell Reports, Vol. 13, pg. 442-446, 1994.	<input type="checkbox"/>	<input type="checkbox"/>
	20.	Matsumoto, et al., "Cryopreservation of in vitro-grown apical meristems of lily by Vitrification", Plant Cell, Tissue and Organ Culture, Vol. 41, pg. 237-241, 1995.	<input type="checkbox"/>	<input type="checkbox"/>
	21.	Kohmura, et al., "Cryopreservation of Apical meristems of Japanese Shallot (Allium wakegi A.) by Vitrification and Subsequent High Plant Regeneration", Cryo-Letters, Vol. 15, pg. 289-298, 1994.	<input type="checkbox"/>	<input type="checkbox"/>

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		Art Unit	1651
		Examiner Name	Deborah K. Ware
Sheet	4 of 4	Attorney Docket Number	62698.000010

OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
	22.	Niino, et al., "Cryopreservation of in vitro-grown shoot tips of Apple and Pear by Vitrification", Plant Cell, Tissue and Organ Culture, Vol. 28, pg. 261-266, 1992.	<input type="checkbox"/>	<input type="checkbox"/>
	23.	Sugawara and Sakai, "Effect of Ca ⁺⁺ on the Survival of Cultured Plant Cells after Freezing and Thawing", Low Temperature Science, Ser. B, Vol. 33, pg. 21-27, 1975.	<input type="checkbox"/>	<input type="checkbox"/>
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